

Serial No.: 10/046,688

Confirmation No.: 2748

Applicant: Newman

Atty. Ref.: 13526.0031.NPUS00

AMENDMENTS TO THE CLAIMS:

1. (currently amended) A monitor for tongs that undergoes a rotational action to provide a tightening action, comprising:
 - a sensor adapted to be coupled to the tongs and being adapted to provide an input signal in response to the tightening action of the tongs;
 - an input electrically coupled to the sensor; and
 - an electrical circuit electrically coupled to the input for receiving the input signal, wherein the electrical circuit ~~includes a learning mode in which~~ varies a target tightness value ~~is determined~~ based on the input signal, and wherein the electrical circuit ~~includes a monitoring mode in which~~ compares the input signal ~~is compared~~ to the target tightness value.
2. (original) The monitor of claim 1, wherein the sensor is a pressure sensor adapted to be in fluid communication with the tongs.
3. (original) The monitor of claim 1, wherein the sensor is a counter adapted to detect the rotational action of the tongs.
4. (original) The monitor of claim 1, wherein the sensor includes an electrical current sensor.
5. (original) The monitor of claim 1, wherein the target tightness value is based on torque exerted by the tongs.

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6. (original) The monitor of claim 1, wherein the target tightness value is based on rotational displacement associated with the tongs.

7. (original) The monitor of claim 1, further comprising an output electrically coupled to the electrical circuit, wherein the electrical circuit provides at the output an output signal in response to the input signal being within a predetermined range of the target tightness value.

8. (original) The monitor of claim 7, wherein the output signal is visible.

9. (original) The monitor of claim 7, wherein the output signal is audible.

10. (original) The monitor of claim 7, wherein the output signal is provided in response to the input signal being within a predetermined range of the target tightness value for a predetermined time delay.

11. (currently amended) A monitor for tongs that undergoes a rotational action to provide a tightening action for sequentially tightening a first joint and a second joint, comprising:

a sensor adapted to be coupled to the tongs and being adapted to provide a first input signal in response to the tongs tightening the first joint, and being adapted to provide a second input signal in response to the tongs tightening the second joint;

an input electrically coupled to the sensor;

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an electrical circuit electrically coupled to the input for receiving the first input signal and the second input signal, wherein the electrical circuit ~~includes a learning mode in which~~ varies a target tightness value ~~is determined~~ based on the first input signal, and wherein the electrical circuit ~~includes a monitoring mode in which~~ compares the second input signal ~~is compared~~ to the target tightness value; and

an output electrically coupled to the electrical circuit, wherein the electrical circuit provides at the output an output signal in response to the second input signal being within a predetermined range of the target tightness value.

12. (original) The monitor of claim 11, wherein the sensor is a pressure sensor adapted to be in fluid communication with the tongs.

13. (original) The monitor of claim 11, wherein the sensor is a counter adapted to detect the rotational action of the tongs.

14. (original) The monitor of claim 11, wherein the sensor includes an electrical current sensor.

15. (original) The monitor of claim 11, wherein the target tightness value is based on torque exerted by the tongs.

16. (original) The monitor of claim 11, wherein the target tightness value is based on rotational displacement associated with the tongs.

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17. (original) The monitor of claim 1, wherein the output signal is visible.
18. (original) The monitor of claim 1, wherein the output signal is audible.
19. (original) The monitor of claim 1, wherein the output signal is provided in response to the second input signal being within a predetermined range of the target tightness value for a predetermined time delay.
20. (currently amended) A method of monitoring the tightening a plurality of joints after tightening a first joint, comprising:
- tightening the first joint;
 - determining a target tightness value by monitoring the tightening of the first joint;
 - tightening the plurality of joints; and
 - redetermining the target tightness value by monitoring the tightening of each of the plurality of joints; and
- comparing to the target tightness value an extent to which each joint of the plurality of joints is tightened .

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While no fees are believed to be due at this time, the undersigned representative requests any extension of time that may be deemed necessary to further the prosecution of this application.

The undersigned representative authorizes the Commissioner to charge any additional fees under 37 C.F.R. 1.16 or 1.17 that may be required, or credit any overpayment, to Deposit Account No. 01-2508, referencing Order No. 13526.0031.NPUS00.

In order to facilitate the resolution of any issues or questions presented by this paper, the Examiner should directly contact the undersigned by phone to further the discussion.

Respectfully submitted,



Matthew F. Steinheider

Patent Attorney

Reg. No. 47,968

Tel. (713) 787-1516

Date:

2/16/04